

Amendment to the Specification

Please delete the paragraph beginning at page 6, line 23 :

~~Figure 15 depicts a 2D electrophoresis gel of separation of the proteins in the pH range 3-10 from the aqueous soluble protein extract.~~

Please delete the paragraph beginning at page 41, line 4 and replace it with the following rewritten paragraph :

~~--The invention is being evaluated properties of the optical labeling molecules can be evaluated on the complex protein mixture in the total protein complement of the hyperthermophilic archeabacterium, *Sulfolobus solfararius*, but the method can be applied to any complex protein mixture an organism. For example, the hyperthermophilic archeabacterium, *Sulfolobus solfararius*, can be use to evaluate the optical labeling molecules. An example of data from a current experiment is shown in Figure 15, where the proteins in the pH range 3-10 from an aqueous soluble *Sulfolobus solfataricus* P2 cell extract in IEF buffer (1%CHAPS, 1-% SB3-10, 7M urea, 2M thioureas, 2mM TBP and 1% IAA) are displayed. The image shown in Figure 15 is derived from Sypro Ruby post-staining and is a consensus of triplicate gels that were aligned with the program PDQuest[®] V7. The spots indicated by arrows are those that were identified by protein mass fingerprinting. --~~

Amendments to the Drawings

Please delete Figure 15.